

FIG. 1

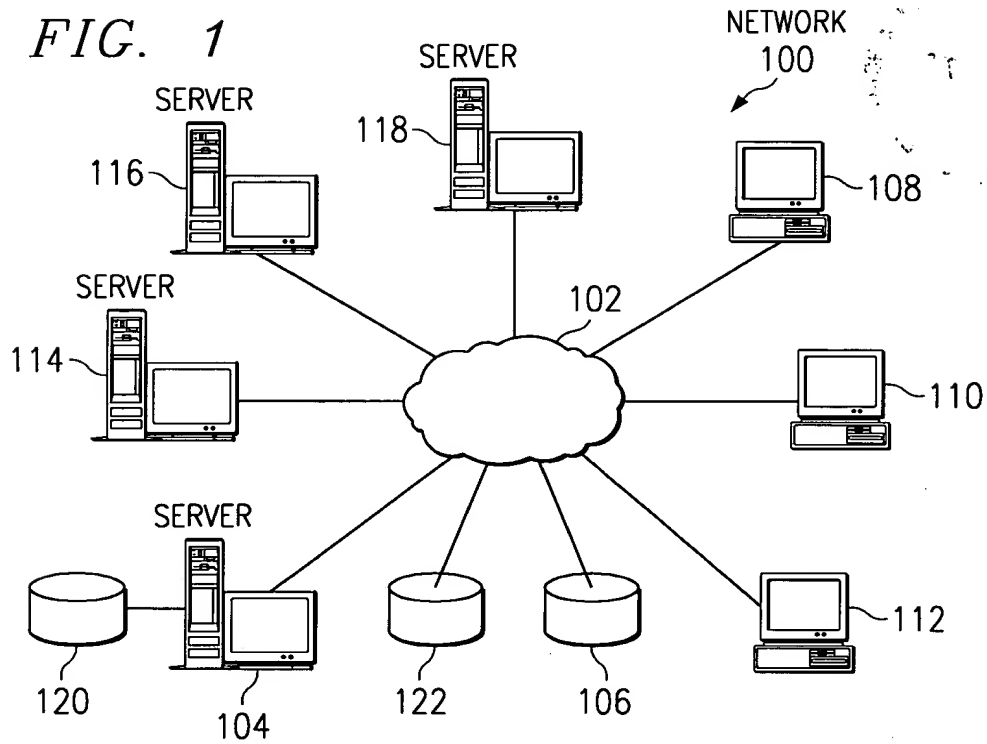
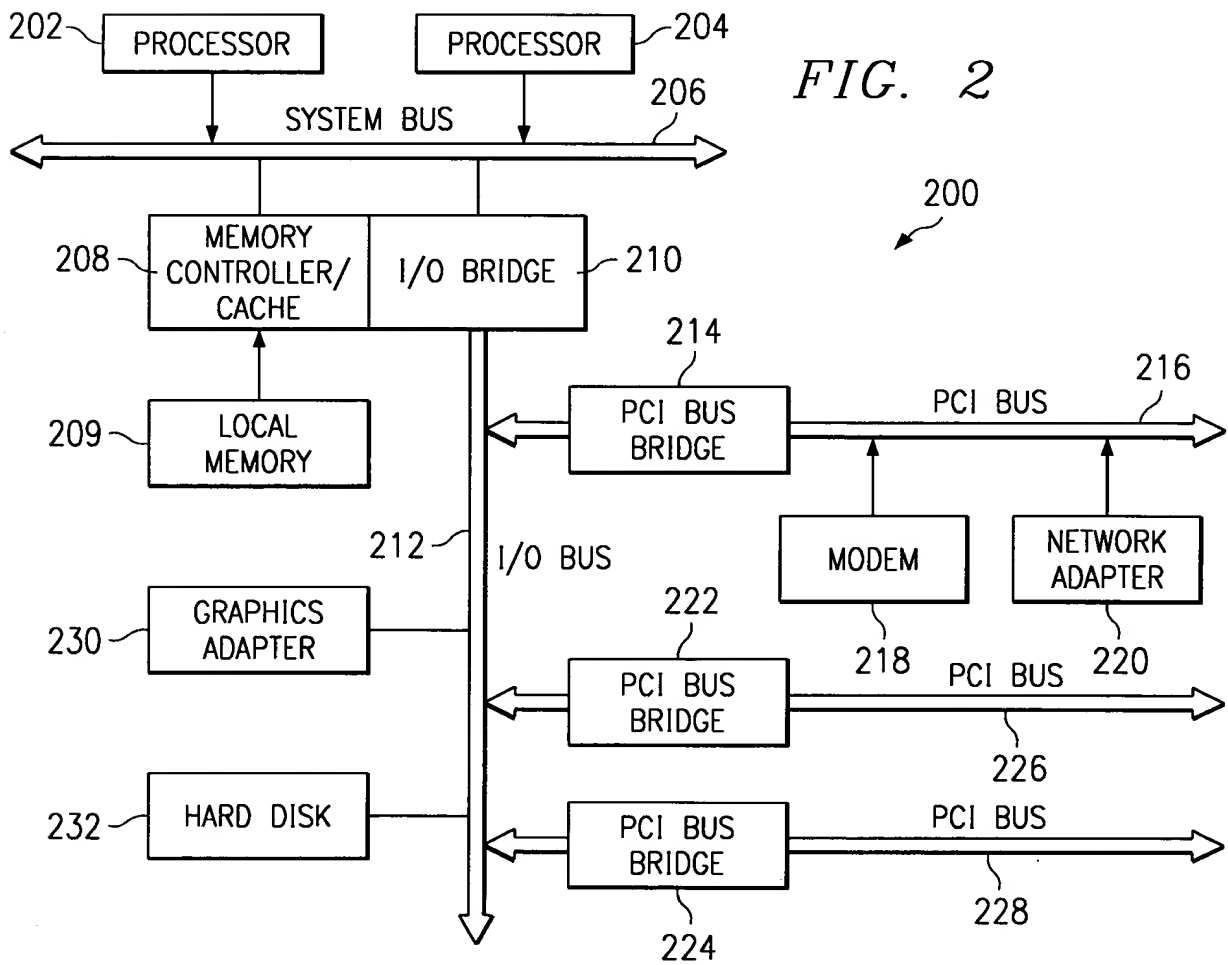


FIG. 2



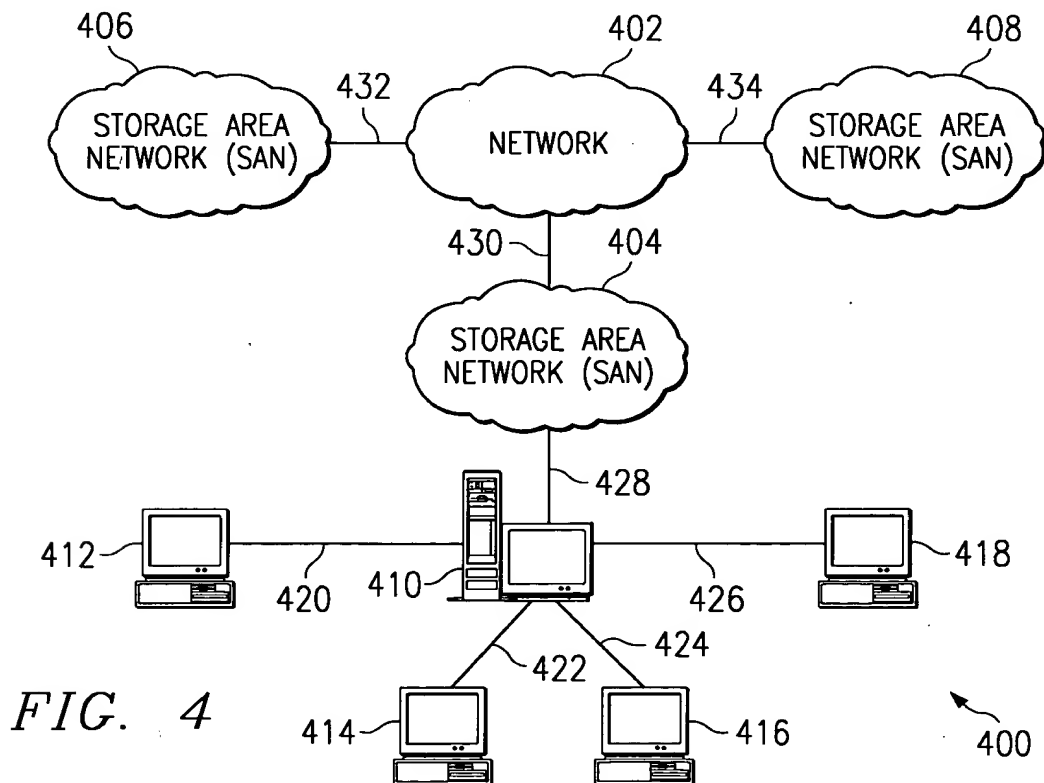
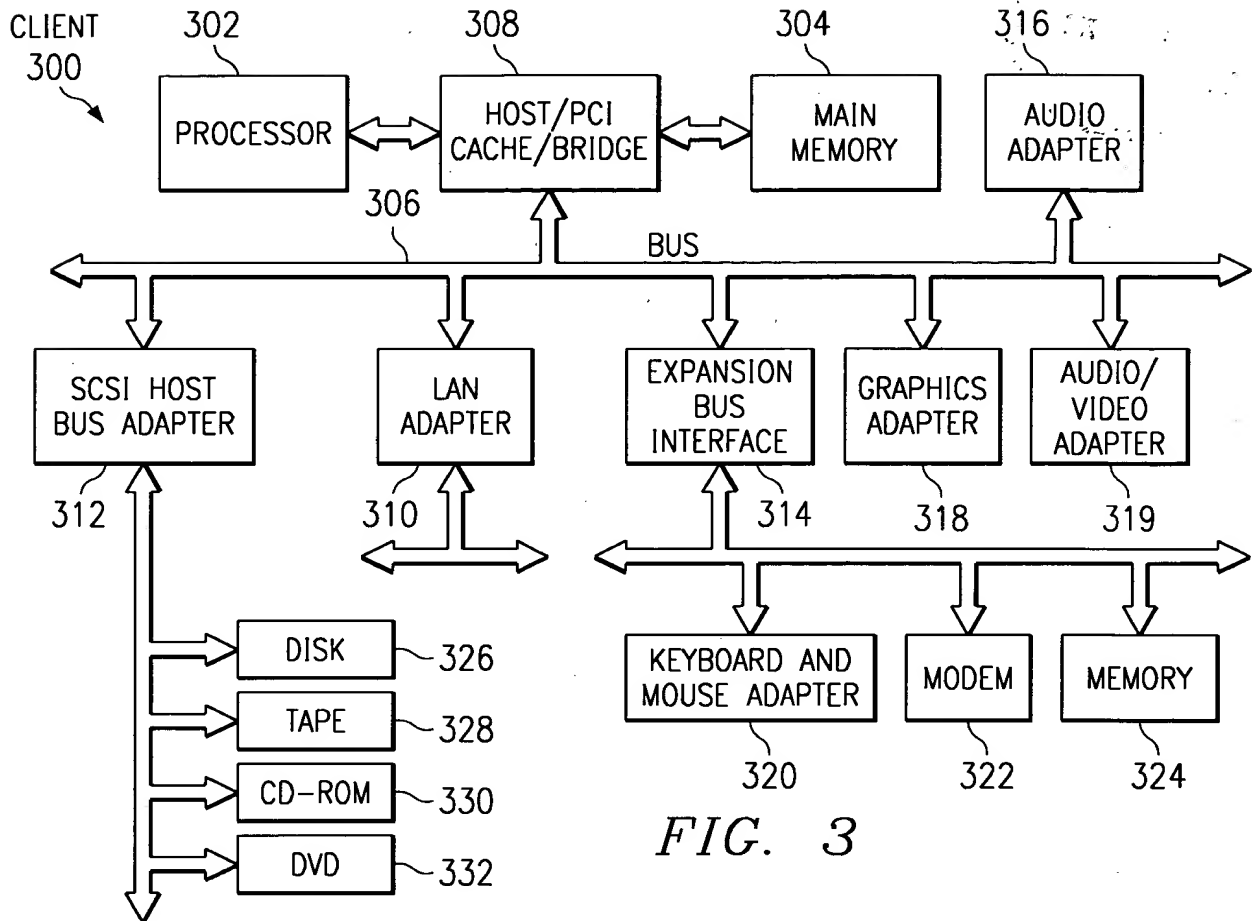


FIG. 5

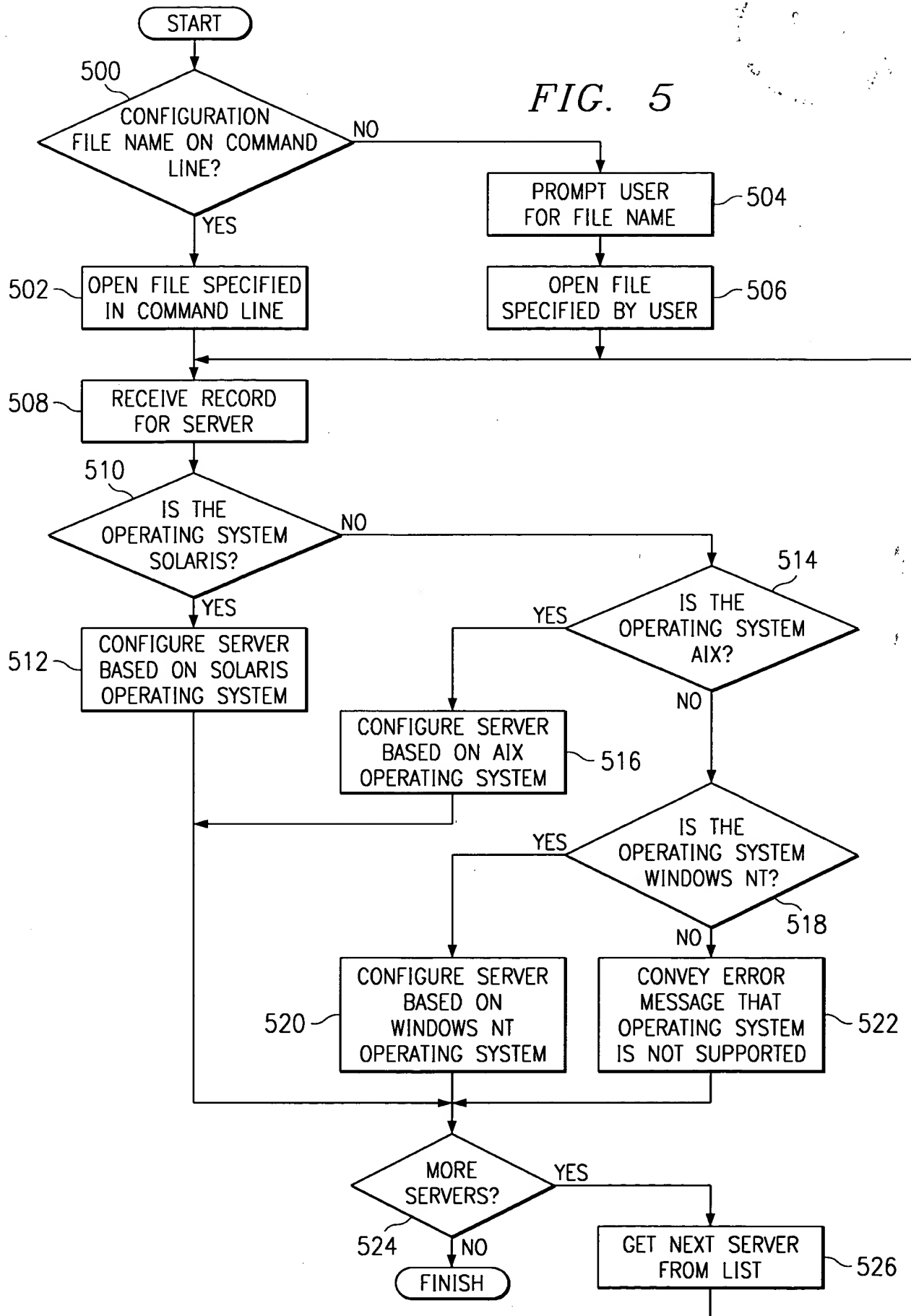


FIG. 6

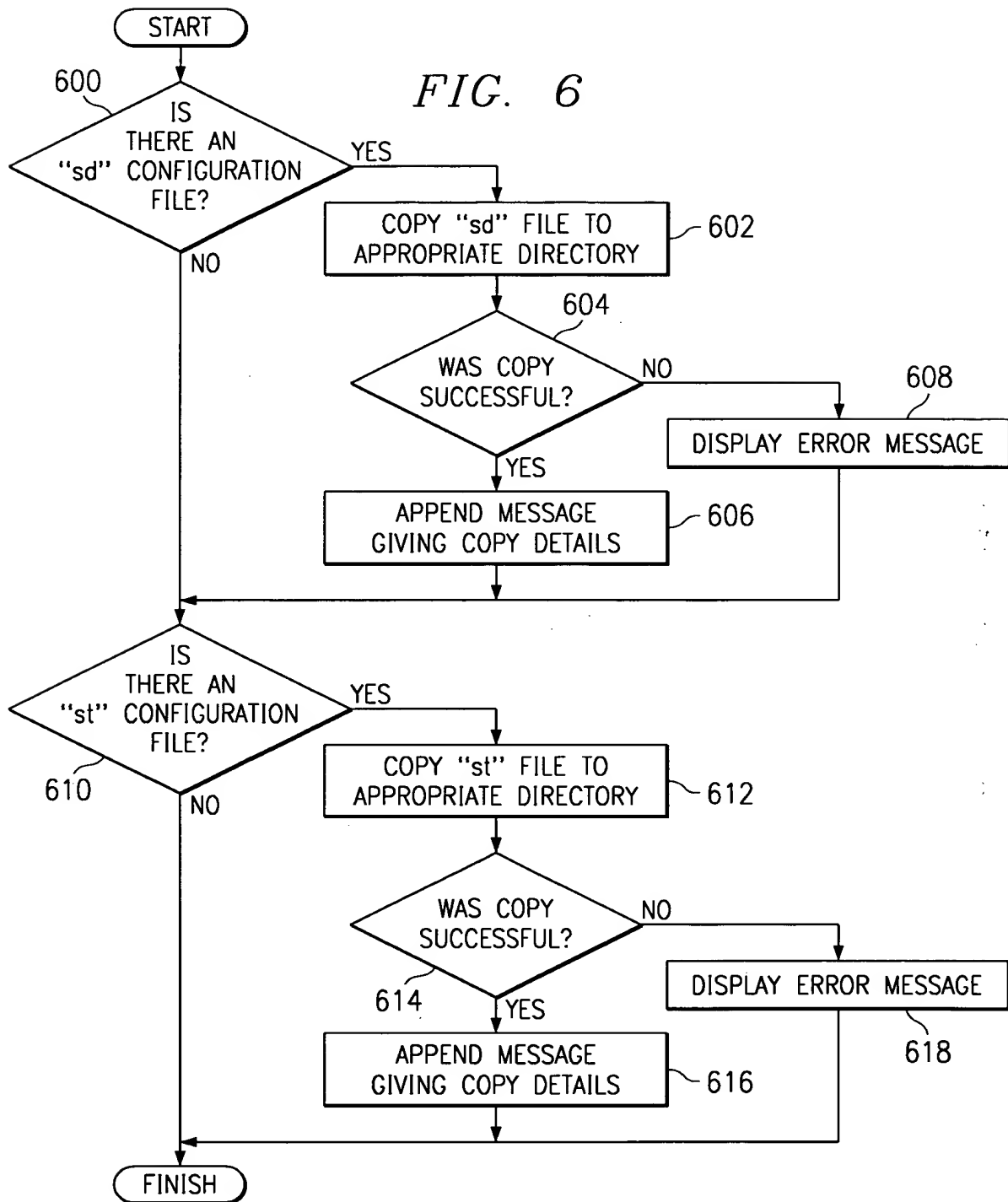


FIG. 7A

```
#####
# san_configurator.ksh
#
# Written by Steve Lipton, with inputs from Rick Hamilton
# April 2, 2000
#
#####
#
# Purpose: This script will install the SAN LUN configuration files on each server attaching to the fibre switch.
# It is intended to simplify the administrator's task by automating the configuration of server-to-disk relationships.
#
#
# Input: 1) Input to this script is the name of the "Serving" system, on which the install code is located.
#         This "server" could be any system in the network that has "rcp" and "rsh" capabilities with
#         the respective workstations that will be identified as clients.
#         2) A list containing the ip addresses and the type of the operating system for the workstations
#            on which the client configurator file is to be installed.
#
#####
#
# Copyright 2000, IBM Corporation. All rights reserved.
#
#####
#
# First, create a list of the workstations who will be receiving the configuration
# files. This is provided by user entry of a filename to accomplish this.
#####
if [ [ $# = 0 ] ] then
    clear
    print "Please enter the name of the list containing the ip addresses of"
    print "the workstations that are to receive the configuration files"
    print
    read wslst
    wslst=$1
else
    fi
#####
```

700

702

FIG. 7B

```
#####
# method for installing configuration files for a Solaris system
# sd.conf contains the entries describing the LUN's that each HBA on each server has access to
# st.conf contains the entries describing the tape devices that each HBA on each server has access to
#####
exec 3<wslist
while read -u3 ipaddr ostype
do
    if $ostype == Solaris
    then
        if [ [ -o /usr/sys/inst.images/sol_sd.conf ] ] then
            rcp -p /usr/sys/inst.images/sd.conf $ipaddr:/kernel/drv/sd.conf # Solaris directory
            if [ [ $? = 0 ] ] then
                echo "Successfully copied SAN configuration file sd.conf to $ipaddr" >>/SAN.copy.config.file.log
                echo "Successfully copied SAN configuration file sd.conf to $ipaddr"
            else
                print "Unable to copy SAN config1 file sd.conf to $ipaddr"
            fi
        fi
    fi
fi

#####
if [ [ -o /usr/sys/inst.images/sol_st.conf ] ] then
    rcp -p /usr/sys/inst.images/st.conf $ipaddr:/kernel/drv/st.conf # Solaris directory
    if [ [ $? = 0 ] ] then
        echo "Successfully copied SAN configuration file st.conf to $ipaddr" >>/SAN.copy.config.file.log
        echo "Successfully copied SAN configuration file st.conf to $ipaddr"
    else
        print "Unable to copy SAN config1 file st.conf to $ipaddr"
    fi
fi
fi
```

FIG. 7C

```

else
    if $ostype == AIX
        then
            if [ [ -a /usr/sys/inst.images/aix-sd.conf ] ] then
                rcp -p /usr/sys/inst.images/sd.conf $ipaddr:/kernel/drv/sd.conf # AIX directory
                if [ [ $? = 0 ] ] then
                    echo "Successfully copied SAN configuration file sd.conf to $ipaddr" >>/SAN.copy.config.file.log
                    echo "Successfully copied SAN configuration file sd.conf to $ipaddr"
                else
                    print "Unable to copy SAN config1 file sd.conf to $ipaddr"
                fi
            fi
        fi
    fi
    if [ [ -a /usr/sys/inst.images/aix_st.conf ] ] then
        rcp -p /usr/sys/inst.images/st.conf $ipaddr:/kernel/drv/st.conf #AIX directory
        if [ [ $? = 0 ] ] then
            echo "Successfully copied SAN configuration file st.conf to $ipaddr" >>/SAN.copy.config.file.log
            echo "Successfully copied SAN configuration file st.conf to $ipaddr"
        else
            print "Unable to copy SAN config1 file st.conf to $ipaddr"
        fi
    fi

```

FIG. 7D

```

else
if $ostype == Nt
then
if [ [ -a /usr/sys/inst.images/nt_sd.conf ] ] then
rcp -p /usr/sys/inst.images/sd.conf $ipaddr:/kernel/drv/sd.conf # Windows NT directory
if [ [ $? = 0 ] ] then
echo "Successfully copied SAN configuration file sd.conf to $ipaddr" >>/SAN.copy.config.file.log
echo "Successfully copied SAN configuration file sd.conf to $ipaddr"
else
print "Unable to copy SAN config1 file sd.conf to $ipaddr"
fi
fi
712
if [ [ -a /usr/sys/inst.images/nt_st.conf ] ] then
rcp -p /usr/sys/inst.images/st.conf $ipaddr:/kernel/drv/st.conf #Windows NT directory
if [ [ $? = 0 ] ] then
echo "Successfully copied SAN configuration file st.conf to $ipaddr" >>/SAN.copy.config.file.log
echo "Successfully copied SAN configuration file st.conf to $ipaddr"
else
print "Unable to copy SAN config1 file st.conf to $ipaddr"
fi
fi
714
else
echo "$ostype not a currently supported operating system. "
echo "Modify script to specify directory and filenames and try again!"
fi
done

```